

Figure 1

SEQ ID NO: 29	1	MADKE-----NCIRVTRIAKKRAVEAMMASEQQRS---KKRVLVIGEL-----
SEQ ID NO: 2		-----GIPGVDPRV---RPRAV-----
SEQ ID NO: 29	61	-----KNLSSN-----
SEQ ID NO: 2		-----
SEQ ID NO: 29	121	-----ISSIQTY-----DFSSGPQQQKNNKRAKESL-----
SEQ ID NO: 2		-----
SEQ ID NO: 29	181	-----KVEEAGIDVFSQSDDPQMCAGAYVSDIYEYLHKMMEMETKRRP-----
SEQ ID NO: 2		-----APADLQLSGSYASDIYTYLRSLEVDPQRSS-----
SEQ ID NO: 29	241	-----LPDYLDKVQKDVTAANMRGVLLDWLVEVAEEYKLPPDTLYLTYSYIDRFLSMNALSQRKLO-----
SEQ ID NO: 2		-----RSDYIEAVQADVTAAHMRSTILVDWLVEVAEEYKLVADTLYLTISYVDRFLSVNALGRDKLQ-----
SEQ ID NO: 29	301	-----LLGVSSMLIASKYEEISPPPHEDFCYITDNTYKKEEVVKMEADVLKFLKEMGNPTIKTF-----
SEQ ID NO: 2		-----LLGVASMLIAAKFEEISPPPHEDFCYITDNTYTKKEELLKMESDLKLLKFEI-----
SEQ ID NO: 29	361	-----LRRILTRVVQDGDKNPNLQEEFLGYYLAELSLLDYGCVKFLPSLIASSVIELSRFTLQPKV-----
SEQ ID NO: 2		-----LRRFIRSAHEDDKKGSSILLMEFLGSYLAELSLLDYGCLRFPLPSVVAASVMFVARPDI-----
SEQ ID NO: 29	421	-----HPWNSSLQHNSGYKPADLKECVLIIHDLQLSKRGSSLVAVRDKYKQHKEFKCVSTLTAPP-----
SEQ ID NO: 2		-----NPWNNTKLQKMTGYKVSELKDCIVAIHDLQLNRKCPSLTAIRDKYKQHKEFKCVSLLIVPVV-----
SEQ ID NO: 29	481	-----IPDEFED---I-----
SEQ ID NO: 2		-----IPTSYFEDLAE.-----

Figure 2

1	M--RSYRFSDYLHMSVSEFSNDMDLFC-----	
	M--GDAAST----SAPTTPTSILIC-----	
	H--ELTASSS----LC-----	
	M--SVSCLSDY----DLLC-----	
60		
SEQ ID NO: 30		
SEQ ID NO: 8		
SEQ ID NO: 10		
SEQ ID NO: 12		
SEQ ID NO: 14		
61	-----GEDSGV-----FSGESTV-----DFSSSEVDSWPGD-----	
	-----LEDGSD----LLADADD----GAGTDLVVARDERLLVVVD--	
	-----GEDSSG-----ILSGESP-----ECSFSDIDSSPPPSPT-----	
	-----ARAG-----IMDS-SP-----ECS-SDLDSSPPSEAE-----	
120		
SEQ ID NO: 30		
SEQ ID NO: 8		
SEQ ID NO: 10		
SEQ ID NO: 12		
SEQ ID NO: 14		
121	-----SIACFIEDER-TFVPGHDYLSR----FQ-----	
	-----QDEEYVALLLSKES-A-SGGGGPVEE----ME-----	
	-----EDCYSIASFIEHER-NFVPGFEYLSR----FQ-----	
	-----SIAGFMEDER-NFVPGFEYLNR----FQ-----	
180		
SEQ ID NO: 30		
SEQ ID NO: 8		
SEQ ID NO: 10		
SEQ ID NO: 12		
SEQ ID NO: 14		
181	-----TRSLDASARED--SV---AWILKVQAYYNFQPLSAYLAVNYMDRFLYARRLP-ETSGWPMQ-----	
	DWM--KAARSG--CV--RWLIKTTAMFREGGKTTAYVAVNYLDRFQARRVNR-----	
	-WL--Q-----TNAGFRFSLKTTAYVAVTYLDRFQPLTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----	
	SRSLDASAREE--SV---GWILKVHAYYGFQPLTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----	
	SRSLDASAREE--SV---AWILKVQAYYYAFQPVTAYLSVNVYLDRFQPLTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----	
182		
SEQ ID NO: 30		
SEQ ID NO: 8		
SEQ ID NO: 10		
SEQ ID NO: 12		
SEQ ID NO: 14		
240		
TRSLDASARED--SV---AWILKVQAYYNFQPLSAYLAVNYMDRFLYARRLP-ETSGWPMQ-----		
DWM--KAARSG--CV--RWLIKTTAMFREGGKTTAYVAVNYLDRFQARRVNR-----		
-WL--Q-----TNAGFRFSLKTTAYVAVTYLDRFQPLTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----		
SRSLDASAREE--SV---GWILKVHAYYGFQPLTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----		
SRSLDASAREE--SV---AWILKVQAYYYAFQPVTAYLAVNYMDRFLYARRLP-ETNGWPLQ-----		
241		
LLAVACLSLAAKMEEILVPSLDFQVAGVKYLFREAKTIKRMELL-----		
LLMVACMSLATKLEEHHAPRLSEFPLDACEFAFDSASILRMELL-----		
LLSVACLSLAAKVEERRPPRLPEFKILD-----YDCASLMLRMELL-----		
LVSVACLSLAAKMEEPLVPSLLDLQIEGAKYIFEPRTRRMELL-----		
LVSVACLSLAAKMEEFSTI.VPSTI.I.DI.QWE.GAKYVFEPKTIBRMELI.I-----		
300		
SEQ ID NO: 30		
SEQ ID NO: 8		
SEQ ID NO: 10		
SEQ ID NO: 12		
SEQ ID NO: 14		

Figure 3

1 MAADNIYDFVASNLCTETKSSLCFDDVDS--LTISQQNI-----ETKSKDL-SFNN-----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

60 HLRA-----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

61 -----GIRSEPLIDLPS-----LSEECLSFMVQREMEEFLPKDDYVERLRS--GDDLDS-VRK
 DL--FPPQSEECVAGLVERERDHMPGPCYGDLRG--GGGCLC-VRR
 SEQ ID NO: 22

120 TRGCP-----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

121 EALDWILKAHMHYGFGELSINYLDRFLSLYELPRSKTWTWVQLLAVACLSAAKME
 EAVDWIWKAYTHHRFRPLTAYLAVNVLDRFLISLSEVPDCKDWMQTQLLAVACVSLAAKME
 SEQ ID NO: 22

180 -----MXF-----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

181 INVPLTVDLQ-VGDPKVFEGKTIQRMELLVLSTLKWRMQAYTPYTIFYFMRKMN--GD
 TAVPQCLDLQEVGDAKYVEAKTVQRMELLVLVTLNWRMHAVTPFSYVVDYELNKLNNNGGS
 -----EANSAFEARTIKVMELLVESTLKWRMQAVTACSFIDYFLICKEND--H
 SEQ ID NO: 22

240 -----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

241 QIPSRPLISGSMQLLISIIRSIDFLERSSEIAAS--VAMSVSGEIQAKDI-DKAMPCEF
 TAPRSWCWLLQSAELIIRAAARGTGCVFRPSEIAAA--VAAAAGDVDDADGVENACC--
 DTPSMLAFSCSTDLLISTKXADFLVERHSEIAGSVALPSFGEHKTSVVEMATTNCK--
 SEQ ID NO: 22

300 -----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

301 IHLDKGKVQKCVELIQDLTTATTA-----AASLVPQSPIGVLEAAACLSYK
 AHVDKERVLRCQEAIGSMASSAAIDDATVPPKSARRRSSPVPQSPVGVLDAAPCLSYR
 -YINKG--VXCDRKDPD-----EV----LPLWNA-----
 SEQ ID NO: 22

360 -----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

361 SGDERTV--GSCTTSSHT-----KRRKLDTSSLEHG-----TSE--KL
 SEEAAATATATSAASHGAPGSSSSSTSPVTSKRRKLASRCDGSCSDRSKRAPAQWTKE
 YL-----KFGLRDM-----L
 SEQ ID NO: 22

420 -----
 SEQ ID NO: 31
 SEQ ID NO: 18
 SEQ ID NO: 22

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Figure 4

SEQ	ID	NO: 32	1	MAIEHNEQ--QELSQ--SELLDAILYCEEKEWGDIVDDETIITPLSSEVTITTTTTT-KP	60
SEQ	ID	NO: 24		---	---
SEQ	ID	NO: 32	61	NSLLPLLLEQDLFWDEELLSSKEKETH-CWFNSFQDDSS--LLCSARVDSVEWILK	120
SEQ	ID	NO: 24		-----NSARAAVGWWSR	---
SEQ	ID	NO: 32	121	VNGYYGFSALTAVLAINYFDR-FLTSLHYQKD-KPWMIQLAAVTCLSLAAKVEETQVPLL	180
SEQ	ID	NO: 24		AAARLGFSALTAAALAAAYLDRCFLPGGALARLGAQPMARLAAVTCAAAKVEETRVPPPL	---
SEQ	ID	NO: 32	181	LDFQV---EDAKYVFEAKTIQORMELLVLSSLLKWRMNPVTPLSFLDHIIIRRLGLRNNIH	240
SEQ	ID	NO: 24		LDLQLYAAADAADPYVFEAKTVRRMELLVLSSLLKWRMNPVTPLSFLDHIIIRRLGLRNNIH	---
SEQ	ID	NO: 32	241	WEFLRRCENLLSIMADCRCFVRYMPSVLATAIMLHVIHQVEPCN--SVDYQNQLLGVLKI	300
SEQ	ID	NO: 24		---LRSCSEGVLAVMADWRWPRHRSWAAAAALLITAAAGDGGDGDG---DTELLALINA	---
SEQ	ID	NO: 32	301	NKEKVNNCFELISEVCS-K-----PISHKRYENPS---HSPSGVID--PIYSS	360
SEQ	ID	NO: 24		PEDKTAECAKLISEVTGMSFLAC-DVGVSAGNKRKHAQLYSPPPSFGVIGALSCFSC	---
SEQ	ID	NO: 32	361	ESSN-----DSWDIES----TSSYF---PVFKKSrvQEQQMKLASSIS---RVFV	420
SEQ	ID	NO: 24		ESTSATAMAAAAGPWAPSASVSVSSPEPPGRAP-KRAAAASASASAGVAPPVQVPH	---
SEQ	ID	NO: 32	421	EAVGS----P----H	439
SEQ	ID	NO: 24		QLPPDEESRDAWPSTCAA.	---